

AMENDMENTS TO THE CLAIMS:

Please cancel Claims 7 and 25 without prejudice to or disclaimer of the subject matter recited therein.

Please amend Claims 1 through 6, 8, 9, 19 through 24, and 26, and add Claims 33 through 43 to read as follows:

1. (Currently Amended) A network apparatus ~~, connected to other network entities via a first type of connection and other network entities via a second type of connection,~~ comprising:
a selective spoofing element ~~, which spoofs some of the multiple connections of the first type based on their associated applications~~ that (a) determines what application is using a transport level connection to said network apparatus and (b) decides whether or not to perform transport level spoofing on the transport level connection in accordance with the determination of what application is using the transport level connection to said network apparatus.

2. (Currently Amended) The network apparatus of claim 1, wherein said spoofing element only spoofs connections ~~of the first type~~ associated with high throughput applications.

3. (Currently Amended) The network apparatus of claim 1, wherein said spoofing element assigns spoofing resources, including buffer space and control blocks, to the spoofed connections transport level connection.

4. (Currently Amended) The network apparatus of claim 1, wherein said spoofing element ~~spoofs connections using at least one spoofing rule based on destination address, source address, destination port number, source port number, options, a differentiated services (DS) field or combinations thereof~~ determines what application is using the transport level connection in accordance with a TCP port number.

5. (Currently Amended) ~~The network apparatus of claim 4, wherein said spoofing element defines the at least one~~ A network apparatus comprising:
a selective spoofing element that decides whether or not to perform transport level spoofing on a transport level connection to said network apparatus in accordance with a spoofing rule in a spoofing profile.

6. (Currently Amended) ~~The network apparatus of claim 1, wherein said spoofing element spoofs some of the multiple connections of the first type based on~~ A network apparatus comprising:

a selective spoofing element that decides whether or not to perform transport level spoofing on a transport level connection to said network apparatus in accordance with at least one operator selectable criterion.

7. (Cancelled)

8. (Currently Amended) The network apparatus of claim 7 1, wherein the first transport level connection uses one of the Transmission Control Protocol (TCP) and the User Datagram Protocol (UDP).

9. (Currently Amended) The network apparatus of claim 1, wherein said network apparatus is connected to another apparatus via the second connection is a backbone connection.

10. (Original) The network apparatus of claim 9, wherein the backbone connection is via a wireless link.

11. (Original) The network apparatus of claim 10, wherein the wireless link has high latency and high error rate.

12. (Original) The network apparatus of claim 10, wherein the wireless link is a satellite link.

13. (Original) The network apparatus of claim 1, wherein said network apparatus is a component of a network gateway.

14. (Original) The network apparatus of claim 1, wherein said network apparatus is a component of a host.

15. (Original) The network apparatus of claim 1, wherein said network apparatus is a component of a hub.

16. (Original) The network apparatus of claim 1, wherein said network apparatus is a component of a switch.

17. (Original) The network apparatus of claim 1, wherein said network apparatus is a component of a VSAT.

18. (Original) The network apparatus of claim 1, wherein said network apparatus is a component of a router.

19. (Currently Amended) A method; comprising:
~~establishing multiple connections of a first type associated with different applications; and~~
selectively performing transport level spoofing some of the multiple connections of the first type based on their associated applications on a transport level connection in accordance with a determination as to what application is using the transport level connection.

20. (Currently Amended) The method of claim 19, wherein said spoofing step only spoofs connections ~~of the first type~~ associated with high throughput applications.

21. (Currently Amended) The method of claim 19, wherein said spoofing step assigns spoofing resources, including buffer space and control blocks, to ~~the~~ a spoofed connections transport level connection.

22. (Currently Amended) The method of claim 19, wherein said spoofing step ~~spoofs connections using at least one spoofing rule based on destination address, source address, destination port number, source port number, options, a differentiated services (DS) field or combinations thereof~~ determines what application is using the transport level connection in accordance with a TCP port number.

23. (Currently Amended) ~~The method of claim 22, wherein said spoofing step defines the at least one~~ A method comprising:
selectively performing transport level spoofing on a transport level connection in accordance with a spoofing rule in a spoofing profile.

24. (Currently Amended) ~~The method of claim 19, wherein said spoofing step spoofs some of the multiple connections of the first type based on~~ A method comprising:

selectively performing transport level spoofing on a transport level connection in accordance with a at least one operator selectable criterion.

25. (Cancelled)

26. (Currently Amended) The method of claim 25 19, wherein the first transport level connection uses one of the Transmission Control Protocol (TCP) and the User Datagram Protocol (UDP).

27. (Original) The method of claim 19, wherein said method is performed in a network gateway.

28. (Original) The method of claim 19, wherein said method is performed in a host.

29. (Original) The method of claim 19, wherein said method is performed in a hub.

30. (Original) The method of claim 19, wherein said method is performed in a switch.

31. (Original) The method of claim 19, wherein said method is performed in a VSAT.

32. (Original) The method of claim 19, wherein said method is performed in a router.

33. (New) A network apparatus comprising:
a selective spoofing element that decides whether or not to perform transport level spoofing on a transport level connection to said network apparatus in accordance with at least one field in a packet received by said network apparatus.
34. (New) An apparatus according to Claim 33, wherein the at least one field comprises a destination network level address.
35. (New) An apparatus according to Claim 33, wherein the at least one field comprises a source network level address.
36. (New) An apparatus according to Claim 33, wherein the at least one field comprises a destination port number.
37. (New) An apparatus according to Claim 33, wherein the at least one field comprises a source port number.
38. (New) An apparatus according to Claim 33, wherein the at least one field comprises a transport level options field.
39. (New) An apparatus according to Claim 33, wherein the at least one field comprises a differentiated services (DS) field.

40. (New) An apparatus according to Claim 33, wherein the at least one field comprises a plurality of fields selected from the group consisting a destination IP address, a source IP address, a TCP destination port number, a TCP source port number, a TCP options field, and an IP differentiated services (DS) field.

6 41. (New) An apparatus according to Claim 33, wherein the at least one field comprises an IP address and a TCP port number.

42. (New) An apparatus according to Claim 33, wherein the at least one field is a TCP field.

43. (New) A method comprising:
selectively performing transport level spoofing on a transport level connection in accordance with at least one field in an IP packet or TCP packet.
